ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/03 Date Received: 05/30/03

Project: Metro Self Monitor, PO# M10057, F&BI 305259

Date Extracted: 06/09/03 Date Analyzed: 06/09/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	<u>Chromiu</u>	m Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
N /10057	0.00	0.01	0.00	-0 OF
M10057 305259-01	0.28	0.21	0.23	< 0.05
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/03 Date Received: 05/30/03

Project: Metro Self Monitor, PO# M10057, F&BI 305259

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 305259-01 (Duplicate)

A1-4-	Reporting	Sample	Arthur Arthur San Carlot	Relative e Percent Difference	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.28	0.24	15	0-20
Copper	mg/L (ppm)	0.21	0.19	10	0-20
Nickel	mg/L (ppm)	0.23	0.20	14	0-20
Zinc	mg/L (ppm)	< 0.05	0.13	nm	0-20

Laboratory Code: 305259-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.28	91	80-120
Copper	mg/L (ppm)	2	0.21	91	80-120
Nickel	mg/L (ppm)	4	0.23	91	80-120
Zinc	mg/L (ppm)	2	< 0.05	95	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recov	ery	Acceptanc	e RP	D
Analyte	Units	Level	LCS	LCSI)	Criteria	(Limi	t 20)
Chromium	mg/L (ppm)	2	97	98		80-120	1	
Copper	mg/L (ppm)	2	98	98		80-120	0	
Nickel	mg/L (ppm)	4	97	98		80-120	1	
Zinc	mg/L (ppm)	2	98	98	, silik	80-120	0	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 11, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 30, 2003 from the Metro Self Monitor, PO# M10057, F&BI 305259 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU0611R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 11, 2003

DUPLICATE COPY

INVOICE # 03ACU0611-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M10057, F&BI 305259 - Results of testing requested by Gerry Thompson for material submitted on May 30, 2003.

FEDERAL TAX ID #(b) (6)

305	250	1
\mathcal{I}	\cup	•

SAMPLE CHAIN OF CUSTODY

CM	05/30/03	AII
----	----------	-----

$G \rightarrow I_0$				SAMPLERS signature)									Page # of					
Send Report To				pro-									TURNAROUND TIME					
Company ALASKAN COPPEN HOCKS				PROJECT NAME/NO. PO #								☐ Standard (2 Weeks) ☐ RUSH						
Send Report To Gr. Thompson Company Alaskan Coppen nocks Address 628 S. Hander 5+				METRO SELF mouldon M10057							24	Rush charges authorized by:						
City, State, ZIP SeatTCE LA				REMARKS					1								LE DISP	
			4-							¥							fter 30 da mples	ıys
Phone # 266-782-877	7 Fax #	6-186-4	309												Will	call v	vith instr	uctions
										ANA	LYS	SES R	EQU	EST	ED			
			~			-	ne	11B	09	072		3						25 M
					. # of	iese	soli	805	y 82	y 85	S	2,2						
Sample ID	Lab ID	Date	Time	Sample Type	containers	TPH-Diesel	TPH-Gasoline	X by	VOCs by 8260	Cs b	HFS	3					1	Notes
						TF	TPF	BTEX by 8021B	ΛOΛ	SVOCs by 8270		3						
	(1)	5//		1/0	,							\exists	\sim					
m 10057	01	5/5/03	12:30	HrO	/													
				•														
														-				
	•																	
						_												
,																		ı
		 				1		٠.										*****
						-												
f																		
ä																		
Friedman & Bruya, Inc.	1	SIGNATU	RE		PRINT	'NA	ME					CO	MP	ANY			DATE	TIME
(Relinguished b	y		- G.	Thorp	تحر					_/	Ac	4	į		3	10/03	10:7/A
Seattle, WA 98119-2029	Received by:	6/1	Polls	of tay	.11	1900	- 0	10	B		F	af	27	-		05	130/03	
Ph. (206) 285-8282	Relinquished b	y:	000	70 100	W W		۸,		VI-1	-		·	سلدام				. 200	
Fax (206) 283-5044	Received by:	•			1.000.00					\dashv						+		
FORMS\COC\COC.DOC										L_	-				 -			1